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GB 1146996
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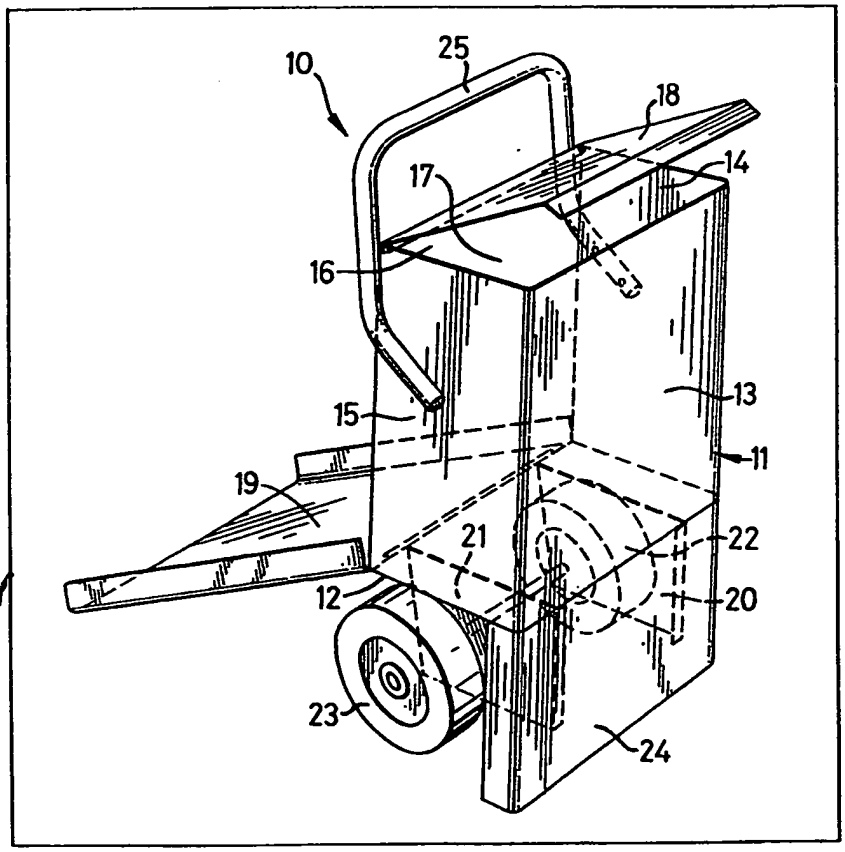
(54) Wheeled refuse sack container

(57) The container comprises a sack receptacle (11) having a top aperture (16), with cover 18, for insertion of a new sack and a rear aperture (17), for removal of a full sack without lifting. The rear aperture 17 may have a closure panel 9 which when open acts as a ramp.



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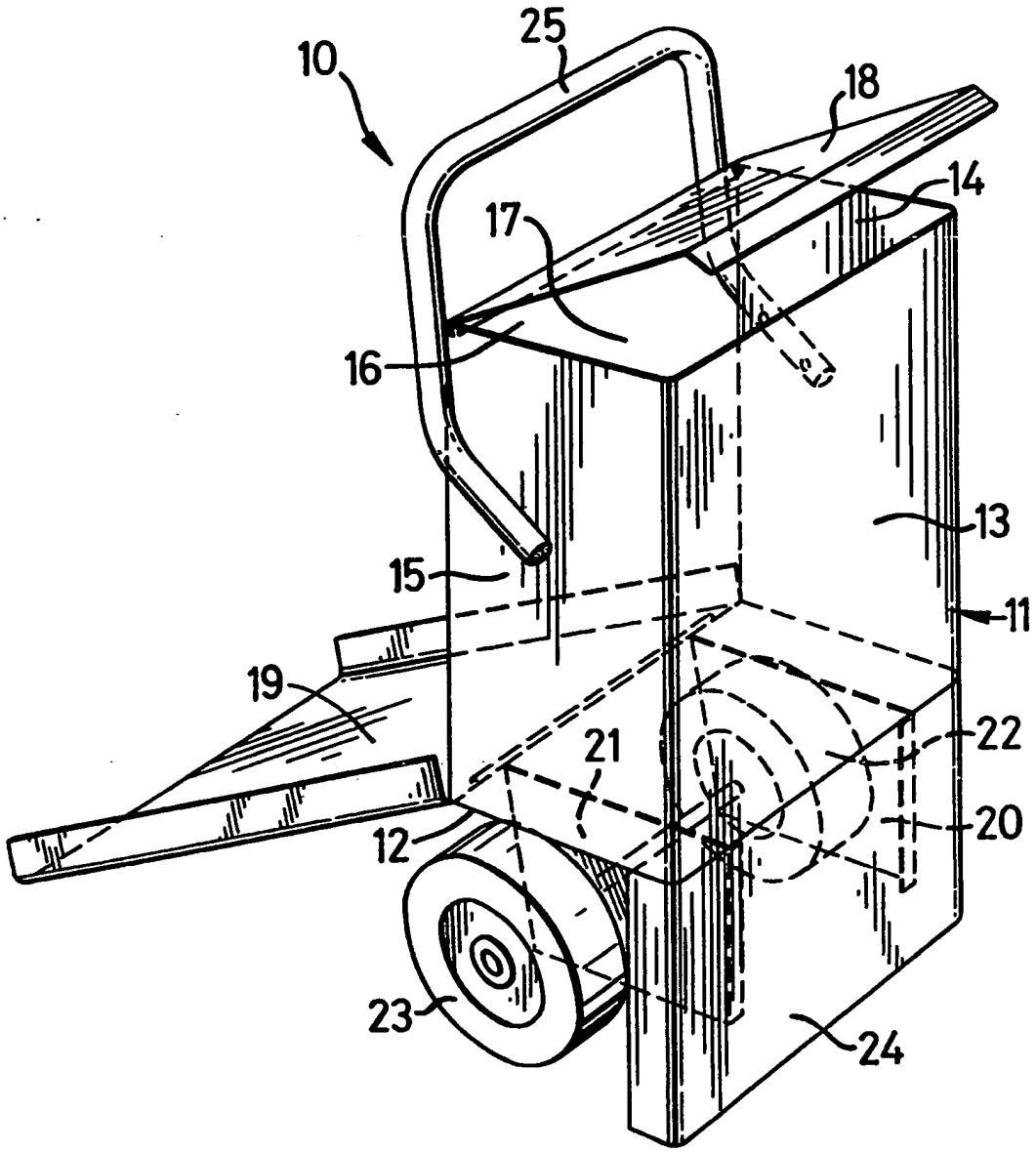
The drawing originally filed was informal and the print here reproduced is taken from a later filed formal copy.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SPECIFICATION
Wheeled container

This invention relates to a wheeled container.

It is known to provide trolleys for transporting heavy articles such as filled refuse containers in the form of sacks or bins. Generally, it is necessary to lift an article to be transported on to and from a trolley on which the article is to be transported from one location to another and such handling of an article such as a filled refuse container is generally either beyond the capacity of, or difficult for, old and/or infirm people.

According to the present invention, there is provided a wheeled container comprising a first receptacle for receiving a second receptacle therein, the first receptacle having a first aperture for inserting therethrough the second receptacle into the first receptacle and having a second aperture, a movable cover for covering the first aperture and a carriage for transporting the first receptacle, the arrangement being such that the second receptacle is removable from the first receptacle by drawing the second receptacle through the second aperture.

The first receptacle may be provided with a second movable cover for covering the second aperture.

The second cover may be pivotally connected to the first receptacle.

The pivotable connection of the second cover to the first receptacle may be such that the second cover when pivoted to open the second aperture, provides a ramp to the second aperture.

Following is a description, by way of example only and with reference to the accompanying drawing, which is a diagrammatic perspective view of one method of carrying the invention into effect.

Referring to the drawing, there is shown a container 10 comprising a substantially rectangular receptacle 11 having a base 12, a front panel 13 and spaced parallel side panels 14, 15 defining an upper aperture 16 and a rear aperture 17. The receptacle 11 is provided with a lid 18 pivotally connected at upper rear corner portions of the side panels 14, 15 for closing the upper aperture 16 and a rear panel 19 pivotally connected to a rear edge portion of the base 12 for closing the rear aperture 17. The rear panel 19 is provided with a catch (not shown) for securing the rear panel in a position in which the rear panel closes the rear aperture 17. The base 12 has depending from a lower surface thereof a pair of brackets 20, 21 in each of which is journalled a corresponding one of a pair of wheels 22, 23. The brackets 20, 21 extend in a direction transversely of the pivot axis of the rear panel 19 and the axes on which the wheels 22, 23 rotate are located in a plane extending parallel to the front panel 13 but nearer the rear panel 19 than the front panel. The dimensions of the wheels 22, 23 in an axial direction thereof are such that the wheels are contained within planes containing the side panels 14, 15 of the receptacle 11.

The container 10 also comprises a skirt 24 depending from the base 12 adjacent the front panel 13 to prevent pivoting of the receptacle 11 about the axis of rotation of the wheels 22, 23 in a forward direction of the container 10 relative to a surface supporting the wheels.

The container 10 is provided with a handle 25 secured to upper rearward portions of the side panels 14, 15 of the receptacle 11.

In use, the rear panel 19 is secured in position closing the rear aperture 17. The lid 18 is raised and a refuse sack of flexible material is inserted into the receptacle 11 through the upper aperture 16 so that the bottom of the sack seats on the base 12. An upper portion of the neck of the sack is turned outwardly over the upper edges of the front panel 13 and side panels 14, 15 of the receptacle 11 thereby securing the neck of the sack in the receptacle 11. The lid 15 then is lowered to close the upper aperture 16.

Refuse from time to time is inserted into the sack by pivoting the lid 15 to open the upper aperture 16, depositing the refuse into the sack and subsequently lowering the lid 15 to close the upper aperture 16.

When the sack has been filled and is to be removed from the receptacle 11 at a suitable location, the container 10 is wheeled to the location and the rear panel 19 is pivoted rearwardly of the receptacle 11 so that a marginal edge portion of the rear panel 19 remote from the pivot axis thereof engages ground supporting the container 10. In this manner, the rear panel 19 comprises a ramp. The neck of the sack is disengaged from the receptacle 11 and the sack is removed from the receptacle 11 and moved down the ramp to the location. The rear panel 19 then is pivoted forwardly to close the rear aperture 17 and is secured in position. The container 10 then is wheeled to the initial location, the lid 18 is pivoted to open the upper aperture and a fresh sack is inserted into the receptacle 11 through the upper aperture 16, the upper portions of the neck of the sack being outwardly wrapped over the upper edge portions of the front panel 13 and side panels 14, 15 there by securing the sack relative to the receptacle 11. The lid 15 then is lowered to close the upper aperture 16 and the procedure set out above is repeated.

CLAIMS

1. A wheeled container comprising a first receptacle for receiving a second receptacle therein, the first receptacle having a first aperture for inserting therethrough the second receptacle into the first receptacle and having a second aperture, a movable cover for covering the first aperture and a carriage for transporting the first receptacle, the arrangement being such that the second receptacle is removable from the first receptacle by drawing the second receptacle through the second aperture.

2. A wheeled container as claimed in claim 1 wherein the first receptacle is provided with a second movable cover for covering the second

aperture.

3. A wheeled container as claimed in claim 2 wherein the second cover is pivotally connected to the first receptacle.

4. A wheeled container as claimed in claim 3 wherein the pivotable connection of the second cover to the first receptacle is such that the second cover when pivoted to open the second aperture, provides a ramp to the second aperture.

5. A wheeled container substantially as hereinbefore described and as illustrated in the accompanying drawing.

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